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NOTICE OF ALLOWANCE AND FEE(S) DUE

86378

7590

07/08/2010

EXAMINER MENON, KRISHNAN S

Pearne & Gordon LLP 1801 East 9th Street

Suite 1200 Cleveland, OH 44114-3108 ART UNIT PAPER NUMBER

1797

DATE MAILED: 07/08/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/708,774	03/24/2004	Juergen Dannenmaier	GAMB-42881US1	2773

TITLE OF INVENTION: FILTER DEVICE HAVING MORE THAN ONE FILTRATION COMPARTMENT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	10/08/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Cleveland, OH 4	14114-3108						(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO:	RNEY DOCKET NO.	CONFIRMATION NO.
10/708,774	03/24/2004		Juergen Dannenmaier		G/	AMB-42881US1	2773
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	10/08/2010
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MENON, KI	RISHNAN S	1797	210-321600				
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required.	ND RESIDENCE DATA less an assignce is ident h in 37 CFR 3.11. Comp	" Indication form led. Use of a Customer A TO BE PRINTED ON "	(1) the names of up to or agents OR, alternativ (2) the name of a single registered attorney or a 2 registered patent attor listed, no name will be particularly (print or type data will appear on the path a substitute for filing an a (B) RESIDENCE: (CITY)	ely, firm (having as a gent) and the name news or agents. If norinted. e) tent. If an assignessignment.	memb s of up o nam	er a 2p to lee is 3lentified below, the do	cument has been filed for
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5. Change in Entity Sta a. Applicant claim	tus (from status indicated as SMALL ENTITY statu		☐ b. Applicant is no long	er claiming SMAL	L ENT	Γ1ΤΥ status. See 37 CF	R 1.27(g)(2).
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if requeecords of the United Sta	uired) will not be accepte ites Patent and Trademark	d from anyone other than the Office.	e applicant; a regis	tered a	nttorney or agent; or the	assignee or other party in
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10/708,774	03/24/2004	Juergen Dannenmaier	GAMB-42881US1 2773		
86378 73	590 07/08/2010		EXAM	INER	
Pearne & Gordon LLP			MENON, KRISHNAN S		
1801 East 9th Stre	et		ART UNIT	PAPER NUMBER	
Suite 1200 Cleveland, OH 44	114-3108		1797 DATE MAILED: 07/08/201	0	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1596 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1596 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
As a second second	10/708,774	 DANNENMAIER E1	- AL.
Notice of Allowability	Examiner	Art Unit	
	Krishnan S. Menon	1797	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	olication. If not includ will be mailed in due	ed course. THIS
1. This communication is responsive to <u>RCE 6/16/10</u> .			
2. The allowed claim(s) is/are <u>10-12,14,15 and 33-43</u> .			
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 	e been received. e been received in Application No		ition from the
International Bureau (PCT Rule 17.2(a)). * Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the re	quirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			IOTICE OF
 5. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the deposition of the deposit	son's Patent Drawing Review (PTO- s Amendment / Comment or in the C .84(c)) should be written on the drawing the header according to 37 CFR 1.121(c	office action of ngs in the front (not the d).	
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08),	5. ☐ Notice of Informal P. 6. ☐ Interview Summary Paper No./Mail Dat 7. ☑ Examiner's Amendn 8. ☐ Examiner's Stateme 9. ☐ Other	(PTO-413), enent/Comment	owance
U.S. Patent and Trademark Office PTOL-37 (Rev. 08-06)	otice of Allowability	Part of Paper No./N	Mail Date 20100630

Art Unit: 1797

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. John Murtaugh on 6/30/10.

The application has been amended as follows:

List of amended claims appear on a fresh page below.

Art Unit: 1797

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application.

1-9. (cancelled)

- 10. (previously presented) A filter device comprising a housing, said housing enclosing at least two fluid filtration compartments, each filtration compartment comprising at least one filter membrane having a first surface and a second surface, said first surface of each filter membrane being in fluid communication with at least one fluid flow port, said second surface being in fluid communication with at least one fluid flow port, adjacent filtration compartments being separated from each other by an internal wall, said housing comprising at least two longitudinally extending shell portions, one of said longitudinally extending shell portions of the housing describing less than one half of the perimeter of said housing, wherein said internal wall comprises a first part and a second part, said first part being attached to a first longitudinally extending shell portion and said second part being attached to a second longitudinally extending shell portion, said first part having a free edge and said second part having a free edge, said free edges being configured to join to each other.
- 11. (original) The filter device of Claim 10, wherein each longitudinally extending shell portions has two longitudinal edges, the longitudinal edges of adjacent shell portions being configured to join to each other, and wherein the free edge of a wall part attached to a shell portion is not coplanar with the longitudinal edges of said shell portion.
- 12. (original) The filter device of Claim 11 wherein a larger one of said longitudinally extending shell portions of the housing describes more than one half of the perimeter of said housing and wherein said free edge of said wall part attached to said larger shell portion extends beyond a plane containing said longitudinal edges of said larger shell portion.

13. (cancelled)

Art Unit: 1797

14. (previously presented) A filter device comprising a housing, said housing enclosing at least two fluid filtration compartments, each filtration compartment comprising at least one filter membrane having a first surface and a second surface, said first surface of each filter membrane being in fluid communication with at least one fluid flow port, said second surface being in fluid communication with at least one fluid flow port, adjacent filtration compartments being separated from each other by an internal wall, said housing comprising at least two longitudinally extending shell portions, one of said longitudinally extending shell portions of the housing describing less than one half of the perimeter of said housing; wherein one of said longitudinally extending shell portions has a first refractive index and another of said longitudinally extending shell portions has a second refractive index, said first refractive index being different from said second refractive index.

15. (original) The filter device of Claim 14 wherein said one of said longitudinally extending shell portions is comprised of polycarbonate and said another of said longitudinally extending shell portions is comprised of polypropylene.

16-32. (cancelled)

33. (rejoined and currently amended) A method of making a filter device comprising the steps of

forming a housing for enclosing at least two fluid filtration compartments, said housing comprising at least two longitudinally extending shell portions, one of said longitudinally extending shell portions of the housing describing less than one half of the perimeter of said housing, adjacent filtration compartments being separated from each other by an internal wall,

placing at least one filter membrane having a first surface and a second surface longitudinally in each filtration compartment;

closing said shell portions around said filter membranes to form said fluid filtration compartments;

sealing adjacent edges of said shell portions;

imbedding ends of said filter membranes in a potting compound; and

capping the ends of said housing; said method further comprising providing at least two spaced apart generally planar walls in each fluid filtration compartment, said walls being in a

Art Unit: 1797

parallel relationship to each other and packing a plurality of filter membranes between said walls; said method

The method of claim 32, further comprising

forming one of said longitudinally extending shell portions from a substantially clear, uncoloured material at at least a boundary thereof,

forming another of said longitudinally extending shell portions of a coloured material at at least a boundary of said another shell portion, and

wherein said step of sealing adjacent edges comprises differential heating of said colored material and said uncoloured material by laser or electromagnetic radiation.

34. (rejoined and currently amended) A method of making a filter device comprising the steps of

forming a housing for enclosing at least two fluid filtration compartments, said housing comprising at least two longitudinally extending shell portions, one of said longitudinally extending shell portions of the housing describing less than one half of the perimeter of said housing, adjacent filtration compartments being separated from each other by an internal wall,

placing at least one filter membrane having a first surface and a second surface longitudinally in each filtration compartment;

closing said shell portions around said filter membranes to form said fluid filtration compartments;

sealing adjacent edges of said shell portions;

imbedding ends of said filter membranes in a potting compound; and

capping the ends of said housing; said method further comprising providing at least two spaced apart generally planar walls in each fluid filtration compartment, said walls being in a parallel relationship to each other and packing a plurality of filter membranes between said walls; said method The method of claim 32, further comprising

forming one of said longitudinally extending shell portions from a first material having a first refractive index and

forming another of said longitudinally extending shell portions from a second material having a second refractive index, said first refractive index being different from said second refractive index, and

Art Unit: 1797

wherein said step of sealing adjacent edges comprises differential heating of said first material and said second material by laser or electromagnetic radiation.

35. (rejoined) The method of claim 34 comprising

forming said one of said longitudinally extending shell portions from polycarbonate, and forming said another of said longitudinally extending shell portions from polypropylene.

36. (original) A filter device comprising

a housing, said housing having

at least two longitudinally extending shell portions

one of said longitudinally extending shell portions having a first optical property and

another of said shell portions having a second optical property, said first optical property being different from said second optical property,

at least one filter membrane disposed within said housing and extending longitudinally from a first end to a second end of said housing,

end caps closing said ends of said housing, and at least one access port for introducing fluid into or out of said filter device.

- 37. (rejoined) The filter device of Claim 36 wherein said optical property is colour.
- 38. (original) The filter device of Claim 36 wherein said optical property is a refractive index.
- 39. (original) The filter device of Claim 38 wherein said one of said longitudinally extending shell portions is comprised of polycarbonate and said another of said longitudinally extending shell portions is comprised of polypropylene.
- 40. (rejoined) The filter device of Claim 36, wherein said longitudinally extending shell portions are welded together.
- 41. (rejoined) The filter device of Claim 40, wherein said longitudinally extending shell portions are laser welded.

Art Unit: 1797

42. (rejoined) The filter device of Claim 40, wherein said longitudinally extending shell portions are ultrasound welded.

43. (rejoined) The filter device of Claim 36 wherein said housing further comprises an internal wall, said wall separating said housing into first and second compartments, said wall having

a first wall portion extending from said one of said longitudinally extending shell portions and having said first refractive index and

a second wall portion extending from said another of said longitudinally extending shell portions and having said second refractive index, said first wall portion being welded to said second wall portion.

Art Unit: 1797

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Krishnan S. Menon whose telephone number is 571-272-1143. The examiner can normally be reached on 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vickie Kim can be reached on 571-272-0579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Krishnan S Menon/ Primary Examiner, Art Unit 1797